

13. The piezoelectric actuator according to claim 11, wherein the second common electrode connection (13) is also provided on the inner wall (3) of the actuator body (1) and contacts every second electrode layer (11) there.

14. The piezoelectric actuator according to claim 13, wherein the first and second electrode connections (12, 13) constitute narrow electrode strips that are disposed diametrically opposite each other and extend in the longitudinal direction of the actuator body (1).

15. A piezoelectric actuator for actuating control valves or injection valves of internal combustion engines in motor vehicles, comprising a circular, cylindrical piezoelectric actuator body (1) in the form of a multilayered laminate made up of stacked layers of piezoelectric material with intervening metallic or electrically conductive, alternating first and second electrode layers (10, 11) that function as electrodes, wherein these first and second electrode layers (10, 11) alternately contact a first and second electrically conductive common electrode connection (12, 13), said first and second electrode layers (10, 11) are respectively disposed on the outer cylinder wall (4) of the actuator body (1) at points that are angularly offset from one another and contact the first and second electrode connections (12, 13) there.

16. The piezoelectric actuator according to claim 15, wherein the points of the first and second electrode layers and the first and second electrode connections (12, 13)

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in contact with them, which are exposed on the outer cylinder wall (4) of the actuator body (1), are disposed diametrically opposite one another.

17. The piezoelectric actuator according to claim 15, wherein each first electrode layer (10) has a recess (17) which encompasses and insulates the second electrode connection (13).

18. The piezoelectric actuator according to claim 15, wherein each second electrode layer (11) has a recess (18) which encompasses and insulates the first electrode connection (12).

19. The piezoelectric actuator according to claim 15, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

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20. The piezoelectric actuator according to claim 15, wherein the first and/or second electrode connection (12, 13) constitutes a wider contact surface in the form of a section of the cylinder circumference extending in the longitudinal direction of the actuator body (1).

21. The piezoelectric actuator according to claim 16, wherein each first electrode layer (10) has a recess (17) which encompasses and insulates the second electrode connection (13).

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22. The piezoelectric actuator according to claim 16, wherein each second electrode layer (11) has a recess (18) which encompasses and insulates the first electrode connection (12).

23. The piezoelectric actuator according to claim 17, wherein each second electrode layer (11) has a recess (18) which encompasses and insulates the first electrode connection (12).

24. The piezoelectric actuator according to claim 16, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

25. The piezoelectric actuator according to claim 17, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

26. The piezoelectric actuator according to claim 18, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

27. The piezoelectric actuator according to claim 16, wherein the first and/or second electrode connection (12, 13) constitutes a wider contact surface in the form of a

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section of the cylinder circumference extending in the longitudinal direction of the actuator body (1).

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28. The piezoelectric actuator according to claim 16, wherein the first and/or second electrode connection (12, 13) constitutes a wider contact surface in the form of a section of the cylinder circumference extending in the longitudinal direction of the actuator body (1).

29. The piezoelectric actuator according to claim 17, wherein the first and/or second electrode connection (12, 13) constitutes a wider contact surface in the form of a section of the cylinder circumference extending in the longitudinal direction of the actuator body (1).

30. The piezoelectric actuator according to claim 18, wherein the first and/or second electrode connection (12, 13) constitutes a wider contact surface in the form of a section of the cylinder circumference extending in the longitudinal direction of the actuator body (1).

31. The piezoelectric actuator according to claim 19, wherein the first and/or second electrode connection (12, 13) constitutes a wider contact surface in the form of a section of the cylinder circumference extending in the longitudinal direction of the actuator body (1).